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Attorney Docket No.: 00P7572US

IN THE CLAIMS:

This listing of the claims will replace all prior versions and listings of the claims in the application:

(Currently Amended) A telecommunications system, comprising: an Ethernet-type local area network; and

one or more telecommunications devices coupled to said Ethemet-type local area network, said one or more telecommunications devices including:

- an Internet Protocol voice communication stack;
- a Quality of Service Ethernet layer; and
- a Generate Quality of Service Ethernet layer interposed between said Internet Protocol voice communication stack and said Quality of Service Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding Quality of Service commands to said Quality of Service Ethernet layer to define an Ethernet Quality of Service at an Ethernet layer.
- A telecommunications system in accordance with claim 1, said second 2. byte comprising a Type of Service byte.
- A telecommunications system in accordance with claim 1, said second 3. byte comprising a Differentiated Service byte.
- A telecommunications system in accordance with claim 2, wherein said Quality of Service Ethernet layer and said Generate Quality of Service Ethernet layer are modular.
- A telecommunications system in accordance with claim 3, wherein said 5. Quality of Service Ethernet layer and said Generate Quality of Service Ethernet layer

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are modular.

6. (Currently Amended) A telecommunications device adapted to be coupled to an Ethernet-type local area network, comprising:

an Internet Protocol voice communication stack;

- a Quality of Service Ethernet layer; and
- a Generate Quality of Service Ethernet layer interposed between said Internet Protocol voice communication stack and said Quality of Service Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding Quality of Service commands to said Quality of Service Ethernet layer to define an Ethernet Quality of Service at an Ethernet layer.
- 7. A telecommunications device in accordance with claim 6, said second byte comprising a Type of Service byte.
- 8. A telecommunications device in accordance with claim 6, said second byte comprising a Differentiated Service byte.
- 9. A telecommunications device in accordance with claim 7, wherein said Quality of Service Ethernet layer and said Generate Quality of Service Ethernet layer are modular.
- A telecommunications device in accordance with claim 8, wherein said
 Quality of Service Ethernet layer and said Generate Quality of Service Ethernet layer
 are modular.
 - 11. (Currently Amended) A method comprising: intercepting a second byte from an Internet Protocol header from an IP layer;

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identifying from said second byte a quality of service required for individual calls; and

generating corresponding Quality of Service commands to a Quality of Service Ethernet layer to define an Ethernet Quality of Service at an Ethernet layer.

(Currently Amended) A method, comprising: beginning an IP multimedia call;

encapsulating corresponding messages for said IP multimedia call in IP protocol data packets;

setting a second byte of an IP header at an IP layer for said IP protocol data packets;

reading said second byte before said IP protocol data packets are sent over a network;

accessing a lookup table, said lookup table containing entries for mapping said second byte to QoS Ethemet quality of service commands;

sending said QoS Ethernet quality of service commands to a QoS Ethernet layer; and

sending said IP protocol data packets over an Ethernet network using a quality of service as specified in said QoS Ethernet quality of service commands at an Ethernet layer.

- A method according to claim 12, wherein said second byte comprises a 13. type of service byte.
- A method according to claim 12, said second byte comprising a differentiated service byte.
 - (Currently Amended) A system, comprising: means for beginning an IP multimedia call;

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means for encapsulating corresponding messages for said IP multimedia call in IP protocol data packets;

means for setting a second byte of an IP header at an IP layer for said IP protocol data packets;

means for reading said second byte before said IP protocol data packets are sent over a network;

means for accessing a lookup table, said lookup table containing entries for mapping said second byte to QoS Ethernet quality of service commands;

means for sending said QoS Ethernet quality of service commands to a QoS Ethernet layer; and

means for sending said IP protocol data packets over an Ethernet network using a quality of service as specified in said QoS Ethernet quality of service commands at an Ethernet layer.

- A system according to claim 15, wherein said second byte comprises a 16. . type of service byte.
 - A system according to claim 15, said second byte comprising a 17. differentiated service byte.

